SUBARU USERS MEETING ON MARCH 2, 2021

FULL REMOTE OBSERVATION PROJECT

- UNMANNED SUMMIT OBSERVATION -

Kentaro Aoki

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TODAY'S SPEAKER: EIJI KAMBE

FULL REMOTE OBSERVATION

Subaru Telescope aims to start full remote observation. The main goals are

Nobody at the summit during night observation.

> Operation from Hilo facility.

> Observers at Mitaka, Hilo or somewhere.

But currently we are in its planning phase.

PURPOSE/GAINS

- Reduce physical burden, risk, & work load of night staffs.
- Save operation costs by reducing Hale Pohaku lodging & summit traffic.
- > Higher obs. success rate by fixing problems.
- Better management/communications through this observatory-wide project.
- Keep redirecting activities of night operators and scientific staff may be important for sustainable future operation of Subaru Telescope.



PROJECT OFFICE



Various divisions (Telescope, Science operation, Computer, Software etc.) need to closely coordinate. The project office will work to manage them.

- Core members
 - Aoki (Lead), Fujiyoshi, Tanaka, I. & Takagi
 - Attend all meetings.
- > Expanded members
 - Attend meetings for directly related topics.
 - Division chief and/or someone recommended by the chives.



MEMBERS ARE TBD

PROJECT PROCESS IN PLANNING PHASE (TBD)

- 1. List up all items solved before full remote obs. Especially by Science Op. & Telescope Op. divs.
- 2. Discussed by whole divisions, and more itemize.
- 3. Plan timeline & conditions for the items, level of "full remote".

TELESCOPE SUBSYSTEM TROUBLES REQUIRING DOME ACCESS



FOR 2018-2020, 115 MAIN SHUTTER, 17 CHILLER, 35 DRIVE, 25 A/C, 36 CALIBRATION SOURCE, AND OTHER TROUBLES

OTHER ACTIVITIES

- Discussion on implementing remote operation function in Local Control Unit (core of our telescope drive system) of telescope.
- fog monitor (the similar system to CFHT) and monitoring cameras.
- Lodging (Pyo-san's presentation)
 - Learn predecessors' experiences/advices.

THANK YOU FOR YOUR UNDERSTANDING, COOPERATION AND SUPPORTS!